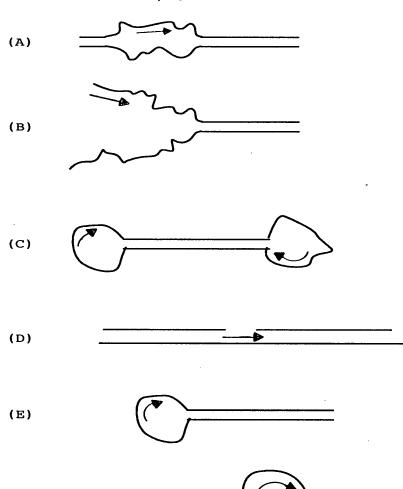


Figure 1 (A-F)

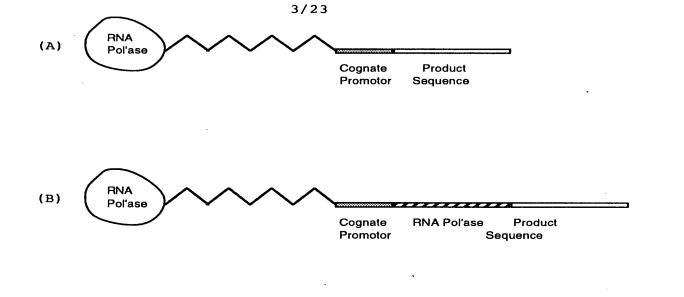
Construct Forms Comprising at Least one Single-Stranded Region



(F)

Figure 2 (A-F)

Functional Forms of the Construct



First

RNA Pol'ase

(C)

Figure 3 (A-C)

First

Promotor

Second RNA

Product

Second

Pol'ase Promotor Sequence

Three Constructs with an RNA Polymerase Covalently Attached to a Transcribing Cassette

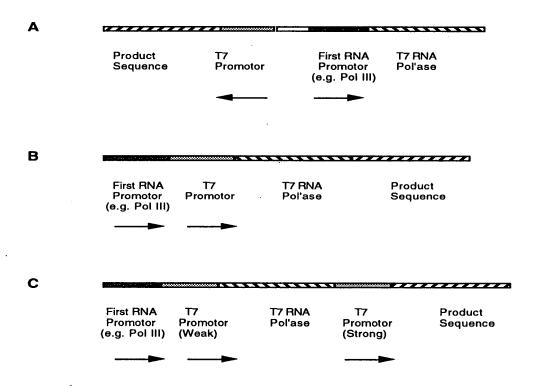


Figure 4 (A-C)

Three Constructs with Promoters for Endogenous RNA Polymerase

M13mp18. Seq Length: 7250

1.	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	стозозос
51.	AAATGAAAAT	ATAGCTAAAC	AGGITATTGA	CCATTTGCGA	AATGTATCTA
101.	ATGGTCAAAC	TAAATCTACT	OGTTOGCAGA	ATTGGGAATC	AACTGTTACA
151.	TGGAATGAAA	CTTCCAGACA	COGTACTITA	GTTGCATATT	TAAAACATGT
201	TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA	TOOGCAAAAA
251	TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TOCTGACCTG
301.	TTGGAGTTTG	CITCCGGTCT	GGTTCGCTTT	GAAGCTOGAA	TTAAAACGCG
351.	ATATTTGAAG	TCTTTCGGGC	TTCCTCTTAA	TCTTTTTGAT	GCAATCCGCT
401.	TTGCTTCTGA	CTATAATAGT	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG
451.	TCATTCTCGT	TTTCTGAACT	GTTTAAAGCA	TTTGAGGGGG	ATTCAATGAA
501.	TATTTATGAC	GATTOOGCAG	TATTGGACGC	TATCCAGTCT	AAACATTTTA
551.	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TOGCTATTTT
601.	GGTTTTTATC	GIOGICIEGI	AAAOGAGGGT	TATGATAGTG	TTGCTCTTAC
651.	TATGCCTCGT	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GITGAATGIG
701.	GTATTCCTAA	ATCTCAACTG	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT
751.	COGTTAGTTC	GTTTTATTAA	CGTAGATTTT	TCTTCCCAAC	GTOCTGACTG
801.	GTATAATGAG	CCAGTTCTTA	AAATOGCATA	AGGTAATTCA	CAATGATTAA
851.	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTOGT	TCTGGTGTTC
901.	TOGTCAGGGC	AAGCTTATT	CACTGAATGA	GCAGCTTTGT	TACGTTGATT
951.	TGGGTAATGA	ATATCCGGTT	CTTGTCGAAG	ATTACTCTTG	ATGAAGGTCA
1001	GOCAGOCTAT	GOGOCTGGTC	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG
1051	TTGGTCAGTT	COGTTCCCTT	ATGATTGACC	GICTGCGCCT	CONTROCACCT
1101	AAGTAACATG	GAGCAGGTCG	CGGATTTCGA	CACAATTTAT	CAGGOGATGA
1151	TACAAATCTC	CGTTGTACCTT	татттововс	TTGGTATAAT	COCTOCOCC
1201	CAAAGATGAG	TGTTTTAGTG	TATTCTTTCG	сстстттсет	TTTAGGTTGG

Figure 5

1251	TGCCTTCGTA	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC
1301	ATGAAAAAGT	CTTTAGTCCT	CAAAGCCTCT	GTAGCCGTTG	CTACCCTCGT
1351	TOOGATGCTG	TCTTTCGCTG	CTGAGGGTGA	OGATOCCCCA	AAAGCGGCCT
1401	TTAACTCCCT	GCAAGCCTCA	GOGACOGAAT	ATATOGGTTA	TECCTTECCCC
1451	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	<b>GGTATCAAGC</b>	TGTTTAAGAA
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCCTTTT
1551	GGAGCCTTTT	TTTTTGGAGA	TTTTCAACGT	GAAAAAATTA	TTATTOGCAA
1601	TTCCTTTAGT	таттосттто	TATTCTCACT	COCCTGAAAC	TGTTGAAAGT
1651	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA	TITACTAACG	TCTGGAAAGA
1701	CGACAAAACT	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	CTGTGGAATG
1751	CTACAGGOGT	TGTAGTTTGT	ACTEGTGACG	AAACTCAGTG	TTACGGTACA
1801	TOGGTTCCTA	ттесесттес	TATCCCTGAA	AATGAGGGTG	GTEGCTCTGA
1851	GEGTIGGCGGT	TCTGAGGGTG	GOOGTTICTICA	<b>GEGIGGOGGT</b>	ACTAMACCTC
1901	CTGAGTACGG	TGATACACCT	ATTOOGGGCT	ATACTTATAT	CAACCCTCTC
1951	GACGGCACTT	ATCCGCCTCG	TACTGAGCAA	AACCOGCTA	ATOCTAATOC
2001	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	CAGAATAATA
2051	<b>GGTTCCGAAA</b>	TAGGCAGGGG	GCATTAACTG	TTTATACGGC	CACTGTTACT
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC
2151	AAAAGCCATG	TATGACGCTT	ACTOGAACOG	TAAATTCAGA	GACTGCGCTT
2201	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC
2151	AAAAGCCATG	TGCCTCAACC	TOCTGTCAAT	ecteeceecs	ecticiestes
2201	TOCATTICTIEG	CTTTAATCAA	GATOCATTOG	TTTGTGAATA	TCAAGGCCAA
2251	TOGTCTGACC	TGCCTCAACC	TOCTGTCAAT	ecteececca	ecticiegieg
2301	TEGTTCTEGT	eccepticitic (Control of Control	AGGGTGGTGG	CTCTGAGGGT	GCCCCTTCTC
2351	AGGGTGGCCG	CTCTGAGGGA	GGOGGTTCCG	GIGGIGGCIC	тесттесског
2401	GATTTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA
2451	AAATGCCGAT	GAAAACGCCGC	TACAGTCTGA	COCTAMAGOC	AAACTTGATT

Figure 5

2501	CIGTOGCTAC	TGATTACGGT	<b>GCTGCTATOG</b>	ATGGTTTCAT	TOGTGACGTT
2551	TOOGGOCTTG	CTAATGGTAA	TEGTECTACT	GGTGATTTTG	CTGGCTCTAA
2601	TTCCCAAATG	<b>GCTCAAGTCG</b>	GTGACGGTGA	TAATTCACCT	TTAATGAATA
2651	ATTTCCGTCA	ATATTTACCT	TOCCTOCCTC	AATCGGTTGA	ATGTCGCCCT
2701	TTTGTCTTTA	GOGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA
2751	AATAAACTTA	TTCCGTCGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT
2801	TTATGTATGT	ATTITCTACG	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT
2851	TTATCATGCC	AGTTCTTTTG	<b>GGTATTCCGT</b>	TATTATTGCG	TTTCCTCCGCT
2901	ПССПСТСВ	TAACTITGTT	COGCTATCTG	CTTACTTTTC	TTAAAAAGGG
2951	CTTCGGTAAG	ATAGCTATTG	CTATTTCATT	GTTCTTGCT	CTTATTATTG
3001	GGCTTAACTC	AATTCTTGTG	<b>GGTTATCTCT</b>	CTGATATTAG	COCTCAATTA
3051	COCTCTGACT	TTGTTCAGGG	TGTTCAGTTA	ATTICTCCCGT	CTAATGCGCT
3101	TCCCTGTTTT	TATGTTATTC	TCTCTGTAAA	GCCTCCTATT	TTCATTTTTG
3151	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	ATTGGGATAA	ATAATATGGC
3201	TGTTTATTTT	GTAACTGGCA	AATTAGGCTC	TGGAAAGACG	CTCGTTAGCG
3251	TTGGTAAGAT	TCAGGATAAA	ATTIGITAGCTG	GGTGCAAAAT	AGCAACTAAT
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCCCAA	GTCCGCACGT	TOGCTAAAAC
3351	COCTOCCOGIT	CTTAGAATAC	COGGATAAGCC	TTCTATATCT	GATTTGCTTG
3401	CTATTGGGCG	COGTAATGAT	TOCTACGAATG	AAAATAAAAA	оздентест
3451	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAT	ACCOGTTCTT	<b>GGAATGATAA</b>
3501	GGAAAGACAG	COGATTATTG	ATTGGTTTCT	ACTECTOST	AAATTAGGAT
3551	GGGATATTAT	тттсттатт	CAGGACTTAT	CTATTGTTGA	TAMACAGGCG
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGIOGIOGIC	TGGACAGAAT
3651	TACTTTACCT	TTTGTCGGTA	CTTTATATTC	TCTTATTACT	GGCTCGAAAA
3701	TECCTCTECC	TAAATTACAT	спессина	TTAAATATGG	CGATTCTCAA
3751	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT	ACTOGTAAGA	ATTTGTATAA
3801	CGCATATGAT	ACTAMACAGG	CTTTTTCTAG	TAATTATGAT	TCCGGTGTTT

Figure 5

3851	ATTCTTATTT	AACGCCTTAT	TTATCACACG	GTCGGTATTT	CAAACCATTA
3901	AATTTAGGTC	AGAAGATGAA	ATTAACTAAA	ATAATATTGA	AAAAGTTTTC
3951	TOGOGTTCTT	TGTCTTGCGA	TTGGATTTGC	ATCAGCATTT	ACATATAGTT
4001	ATATAACCCA	ACCTAAGCCG	GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT
4051	GATTITGATA	AATTCACTAT	TGACTCTTCT	CAGOGTCTTA	ATCTAAGCTA
4101	TOGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT	AGOGAOGATT
4151	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTCC
4201	ATTAAAAAAG	GTAATTCAAA	TGAAATTGTT	AAATGTAATT	AATTTTGTTT
4251	TCTTGATGTT	TGTTTCATCA	тспспппа	CTCAGGTAAT	TGAAATGAAT
4301	AATTOGOCTC	TGCGCGATTT	TGTAACTTGG	TATTCAAAGC	AATCAGGCGA
4351	AATCCGTTATT	GTTCTCCCCG	ATGTAAAAGG	TACTGTTACT	GTATATTCAT
4401	CTGACGTTAA	ACCTGAAAAT	CTACGCAATT	TCTTTATTTC	TGTTTTACGT
4451	GCTAATAATT	TTGATAATGGT	TGGTTCAATT	CCTTCCATAA	TTCAGAAGTA
4501	TAATCCAAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC
4551	AGGAATATGA	TGATAATTCC	<b>ectecticie</b>	GIGGITTCIT	TGTTCCGCAA
4601	AATGATAATG	TTACTCAAAC	TTTAAAATT	AATAACGTTC	GGGCAAAGGA
4651	TTTAATACGA	GTTGTCGAAT	TGTTTGTAAA	GTCTAATACT	TCTAAATCCT
4701	CAAATGTATT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT	TAGTGCTCCT
4751	AAAGATATTT	TAGATAACCT	TOCTCAATTC	CTTTCTACTG	TTGATTTGCC
4801	AACTGACCAG	ATATTGATTG	AGGITTGAT	ATTTGAGGTT	CAGCAAGGTG
4851	ATGCTTTAGA	TTTTCATTT	<b>ectecteect</b>	CTCAGOGTGG	CACTGTTGCA
4901	GGCGGTGTTA	ATACTGACCG	OCTCACCTCT	GTTTTAŢCTT	CTOCTOGTOG
4951	TTCGTTCCGT	ATTTTTAATG	GCGATGTTTT	AGGGCTATCA	GTTCGCCCAT
5001	TAAAGACTAA	TAGOCATTCA	AAAATATTGT	CTGTGCCACG	TATTCTTACG
5051	CTTTCAGGTC	AGAAGGGTTC	TATCTCTGTT	GGCCAGAATG	TCCCTTTTAT
5101	TAAAGACTAA	TAGOCATTCA	AAAATATTGT	CTGTGCCACG	TATTCTTACG
5151	CGATTGAGCG	TCAAAATGTA	GGTATTTCCA	TGAGCGTTTT	TOCTGTTGCA

Figure 5

5201	ATGGCTGGCG	GTAATATTGT	TCTGGATATT	ACCAGCAAGG	CCGATAGTTT
5251	GAGITICICT	ACTCAGGCAA	GTGATGTTAT	TACTAATCAA	AGAAGTATTG
5301	CTACAACGGT	TAATTIGOGT	GATGGACAGA	CTCTTTTACT	OGGTGGCCTC
5351	ACTGATTATA	AAAACACTTC	TCAAGATTCT	GGCGTACCGT	TOCTGTCTAA
5401	AATCCCTTTA	ATCGGCCTCC	TGTTTAGCTC	COGCTCTGAT	TOCAACGAGG
5451 <sub>.</sub>	AAAGCACGTT .	ATACGTGCTC	GTCAAAGCAA	CCATAGTACG	OGCOCTGTAG
5501	CCCCCCATTA	ACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	वादाव्दाव्दा	TACGCGCAGC	GTGACCGCTA
5551	CACTTGCCAG	COCCTAGCG	COOCCTCCTT	TOGOTTTOTT	$\infty$
5601	CTCGCCACGT	TOGOOGGCTT	TOCCOGTICAA	GCTCTAAATC	GGGGGGCTTCCC
5651	TITAGGGTTC	OGATTTAGTG	CTTTACCGCCA	CCTCGACCCC	AAAAACTTG
5701	ATTTGGGTGA	TEGTTCACGT	AGTGGGCCAT	OGCCCTGATA	GACGGTTTTT
5751	OGCCCTTTGA	COTTOGAGTC	CACGTTCTTT	AATAGTGGAC	TCTTGTTCCA
5801	AACTGGAACA	ACACTCAACC	CTATCTCCGCG	CTATTCTTTT	GATTTATAAG
5851	GGATTTTGCC	GATTTCGGAA	OCACCATCAA	ACAGGATTTT	œcciectès
5901	GGCAWACCAG	CCTTCCACCCC	TTGCTGCAAC	TCTCTCAGGG	OCAGGCGGTG
5951	AAGGGCAATC	AGCTGTTGCC	OCTICTOCCTG	GTGAAAAGAA	AAAOCACCCT
6001	GGCGCCCAAT	ACCAMACCG	CTCTCCCCCCG	ОССОСТВОСС	GATTCATTAA
6051	TECASCTESC	ACGACAGGTT	TOOOGACTOG	AAAGOGGGCA	GTGAGCGCAA
6101	CGCAATTAAT	GTGAGTTAGC	TCACTCATTA	GGCACCCCAG	GCTTTACACT
6151	TTATGCTTCC	GCTCGTATG	TIGIGIGGAA	TTGTGAGCGG	ATAACAATTT
6201	CACACAGGAA	ACAGCTATGA	CCATGATTAC	GAATTOGAGC	TOGGTACCCG
6251	GOGATOCTCT	AGAGTOGACC	TECAGECATE	CAAGCTTGGC	ACTGGCCGTC
6301	GTTTTACAAC	GTOGTGACTG	GGAAAACCCT	GGOGTTACCC	AACTTAATCG
6351	OCTTGCAGCA	CAATCCCCTT	TOGOCAGCTG	GOGTAATAGC	GAAGAGGCCC
6401	CCACCCATCG	COCTTOCCAA	CAGTTGCGCA	GOCTGAATGG	CGAATGGCGC
6451	THECCIGGE .	TTCCCGCACC	AGAAGCGGTG	COOGAAAGCT	<b>GECTEGAGTG</b>
6501	COGATICTTCCT	GAGGCCGATA	<b>व्यवाव्याव्या</b>	COCCTCAAAC	TGGCAGATGC

Figure 5

6551	ACGGTTACGA	TGCGCCCATC	TACACCAACG	TAACCTATCC	CATTACGGTC
6601	AATOOGOOGT	TTGTTCCCAC	GCACAATCCG	ACGCGTTGTT	ACTOGCTCAC
6651	ATTTAATGTT	GATGAAAGCT	GGCTACAGGA	AGGCCAGACG	CGAATTATTT
6701	TTGATGGCGT	TCCTATTGGT	TAAAAAATGA	GCTGATTTAA	CAAAAATTTA
6751	ACGCGAATTT	TAACAAAATA	TTAACGTTTA	CAATTTAAAT	ATTTGCTTAT
6801	ACAATCTTCC	TGTTTTTGGG	GCTTTTCTGA	TTATCAACCG	<b>GGGTACATAT</b>
6851	GATTGACATG	CTAGTTTTAC	GATTACCGTT	CATCGATTCT	сттатттаст
6901	CCAGACTCTC	AGGCAATGAC	CTGATAGCCT	TTGTAGATCT	CTCAAAAATA
6951	<b>GCTACCCTCT</b>	COCCCATGAA	TTTATCAGCT	AGAACGGTTG	AATATCATAT
7001	TGATGGTGAT	TTGACTGTCT	COCCCTTTC	TCACCCTTTT	GAATCTTTAC
7051	CTACACATTA	CTCAGGCATT	GCATTTAAAA	TATATGAGGG	TTCTAAAAAT
7101	TTTTATCCTT	GOGTTGAAAT	AAAGGCTTCT	CCCCCAAAAG	TATTACAGGG
7151	TCATAATGTT	TTTGGTACAA	COGATTTAGC	TTTATGCTCT	GAGGCTTTAT

Figure 5

### COMPLEMENTARY TO M<sub>13</sub>

POSITION 645	5 ' 3' AGCAACACTATCATA	POSITION 631	M <sub>13</sub> /1
615	ACGACGATAAAAACC	601	M <sub>13</sub> /2
585	TTTTGCAAAAGAAGT	571	M <sub>13</sub> /3
555	AATAGTAAAATGTTT	541	M <sub>13</sub> /4
525	CAATACTGOGGAATG	511	M <sub>13</sub> /5
495	TGAATCCCCCTCAAA	481	M <sub>13</sub> /6
465	AGAAAACGAGAATGA	451	M <sub>13</sub> /7
435	CAGGTCTTTACCCTG	421	M <sub>13</sub> /8
405	AGGAAAGOGGATTGC	391	M <sub>13</sub> /9
375	AGGAAGOCCGAAAGA	361	M <sub>13</sub> /10
	COMPLEMENTAR	RY TO SS PHAGE DNA	
POSITION		RY TO SS PHAGE DNA POSITION	
POSITION 351	COMPLEMENTAR 5' * 3' ATATTTGAAGTCTTT		M <sub>13</sub> /11
	5' * * 3'	POSITION	M <sub>13</sub> /11 M <sub>13</sub> /12
351	5' * * 3' ATATTTGAAGTCTTT	POSITION 366	. –
351 371	5' 3' ATATTTGAAGTCTTT TCTTTTTGATGCAAT	POSITION 366 386	M <sub>13</sub> /12
351 371 391	5' 3' ATATTTGAAGTCTTT  TCTTTTTGATGCAAT  CTATAATACTCAGGG	POSITION 366 386 406	M <sub>13</sub> /12 M <sub>13</sub> /13
351 371 391 411	5' 3' ATATTTGAAGTCTTT  TCTTTTTGATGCAAT  CTATAATACTCAGGG  TGATTTATGGTCATT	POSITION 366 386 406 426	M <sub>13</sub> /12 M <sub>13</sub> /13 M <sub>13</sub> /14
351 371 391 411 431	5' 3' ATATTTGAAGTCTTT  TCTTTTTGATGCAAT  CTATAATACTCAGGG  TGATTTATGGTCATT  GTTTAAAGCATTTGA	POSITION 366 386 406 426 446	M <sub>13</sub> /12 M <sub>13</sub> /13 M <sub>13</sub> /14 M <sub>13</sub> /15
351 371 391 411 431 451	5' 3' ATATTTGAAGTCTTT  TCTTTTTGATGCAAT  CTATAATACTCAGGG  TGATTTATGGTCATT  GTTTAAAGCATTTGA  TATTTATGACGATTC	POSITION 366 386 406 426 446	M <sub>13</sub> /12 M <sub>13</sub> /13 M <sub>13</sub> /14 M <sub>13</sub> /15 M <sub>13</sub> /16

Figure 6

526

546

M<sub>13</sub>/19

M<sub>13/2</sub>0

TCGCTATTTTGGTTT

AAACGAGGGTTATGA

511

531

Primers for Nucleic Acid Production Derived from M13mp18 Sequence

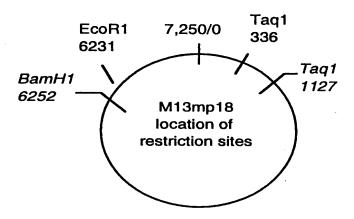
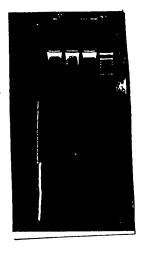


Figure 7

Appropriate M13mp18 Restriction Sites



Lane 1: from calf thymus + Taq digested mp18 amplification reaction

Lane 2: from Taq digested mp18 amplification reaction

Lane 3: from calf thymus amplification reaction

Lane 4: øX174 Hinf1 size marker

Figure 8



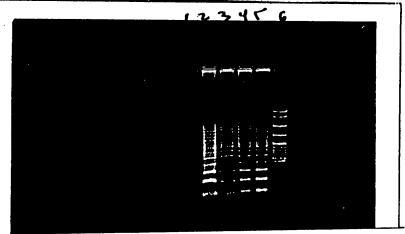
Lane 1: no template

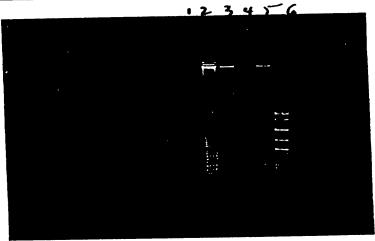
Lane 2: mp18 template, phosphate buffer

Lane 3: Mspl/pBR322 size marker

Lane 4: mp18 template, MOPS buffer

Figure 9





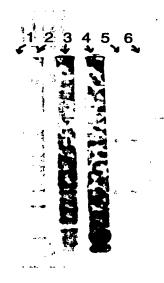
Top= (+) Template Bottom= (-) Template

Lane 1: phosphate buffer

Lane 2: MES Lane 3: MOPS Lane 4: DMAB Lane 5: DMG

Lane 6: pBR322/Mspl size marker

Figure 10



Lane 1: DMAB buffer, no template

Lane 2: DMAB buffer, mp18 template

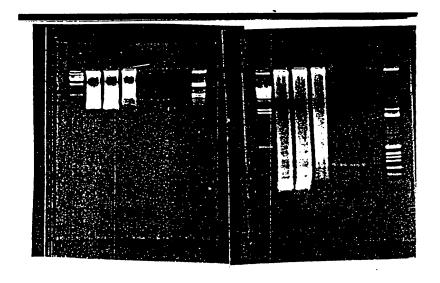
Lane 3: DMG buffer, no template

Lane 4: DMG buffer, mp18 template

Lane 5: No reaction

Lane 6: 200 ng Taq I digested mp18 size marker/positive control

Figure 11



First Time Interval Second Time Interval

### Agarose Gel Analysis

Lane 1: lambda Hind III marker

Lane 2: Amp/Untreated

Lane 3: Amp/Kinased

Lane 4: Amp/Kinased/Ligated

Lane 5: PCR/Untreated

Lane 6: PCR/Kinased

Lane 7: PCR/Kinased/Ligated Lane 8: øX174/Hinf1 marker

Figure 12

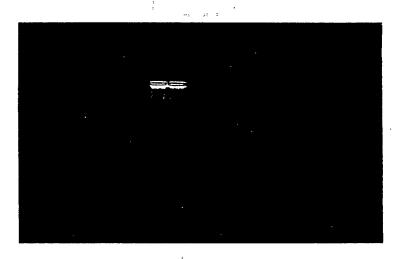
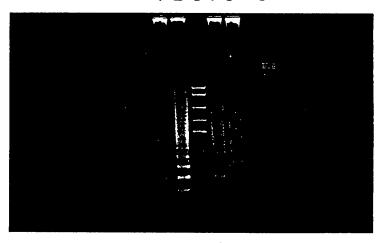


Figure 13

1 2 3 4 5 6



Lane 1: Primers alone

Lane 2: Primers + taq digested M13 DNA

Lane 3: Molecular weight markers

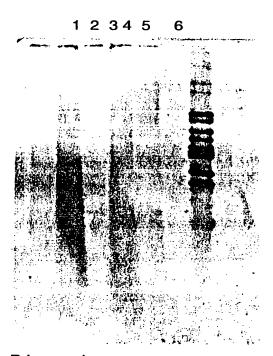
Lane 4: Primers + RNA

Lane 5: Primers alone

Lane 6: M13 digested DNA

Buffer was dimethyl amino glycine, pH 8.6

Figure 14



Lane 1: Primers alone

Lane 2: Primers + taq digested M13 DNA

Lane 3: Molecular weight markers

Lane 4: Primers + RNA

Lane 5: Primers alone

Lane 6: M13 digested DNA

Buffer was dimethyl amino glycine, pH 8.6

Figure 15

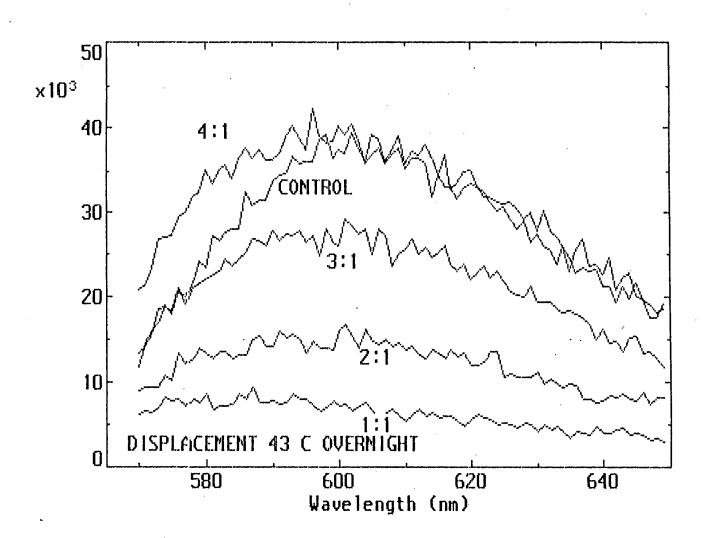


Figure 16

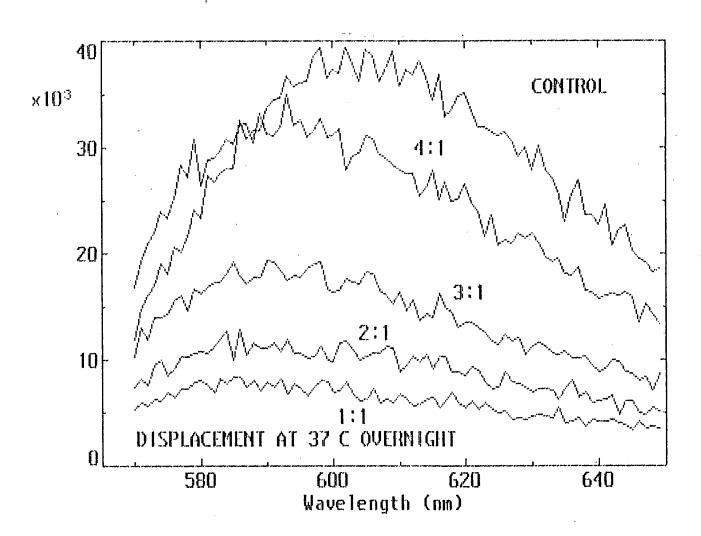


Figure 17

#### pIBI 31-BH5-2

fmet AUG of Lac z {T7 Promotor region.... LAC PROMOTOR..ATG ACC ATG ATT ACG CCA GAT ATC AAA TTA ATA CGA CTC ACT ATA

oligo 50-mer

3'- tac t\*aa t\*gc ggt\* ct\*a t\*ag t\*Vt aat\* tat\* gct\* gag t\*ga t\*at\* c-5' 10 base insert

T7 RNA Start {«« T3 Promotor Region } IGGG CTC ICCT TTA GTG ACG GTT AAT ...»»} «- T3 Start Signal

#### pIBI 31 BSII/HCV

fmet AUG of Lac z {T3 Promotor region -»} T3 RNA Start LAC PROMOTOR .ATG ACC ATG ATT ACG CCA AGC TCG AAA TTA ACC CTC ACT AAA /GGG oligo 50-mer 3'- tac t\*aa t\*ac t\*aa t\*gc ggt\* t\*V--10 base insert--.....

{«- T7 Promotor Region }

MULTIPLE CLONING SITE + 390 BASE INSERT CTA /TAG TGA GTC CGT ATT AAT....

«- T7 Start Signal

5'-ct\*a t\*ag t\*ga gt\*c gt\*a tt\*a at\*..........

Figure 18